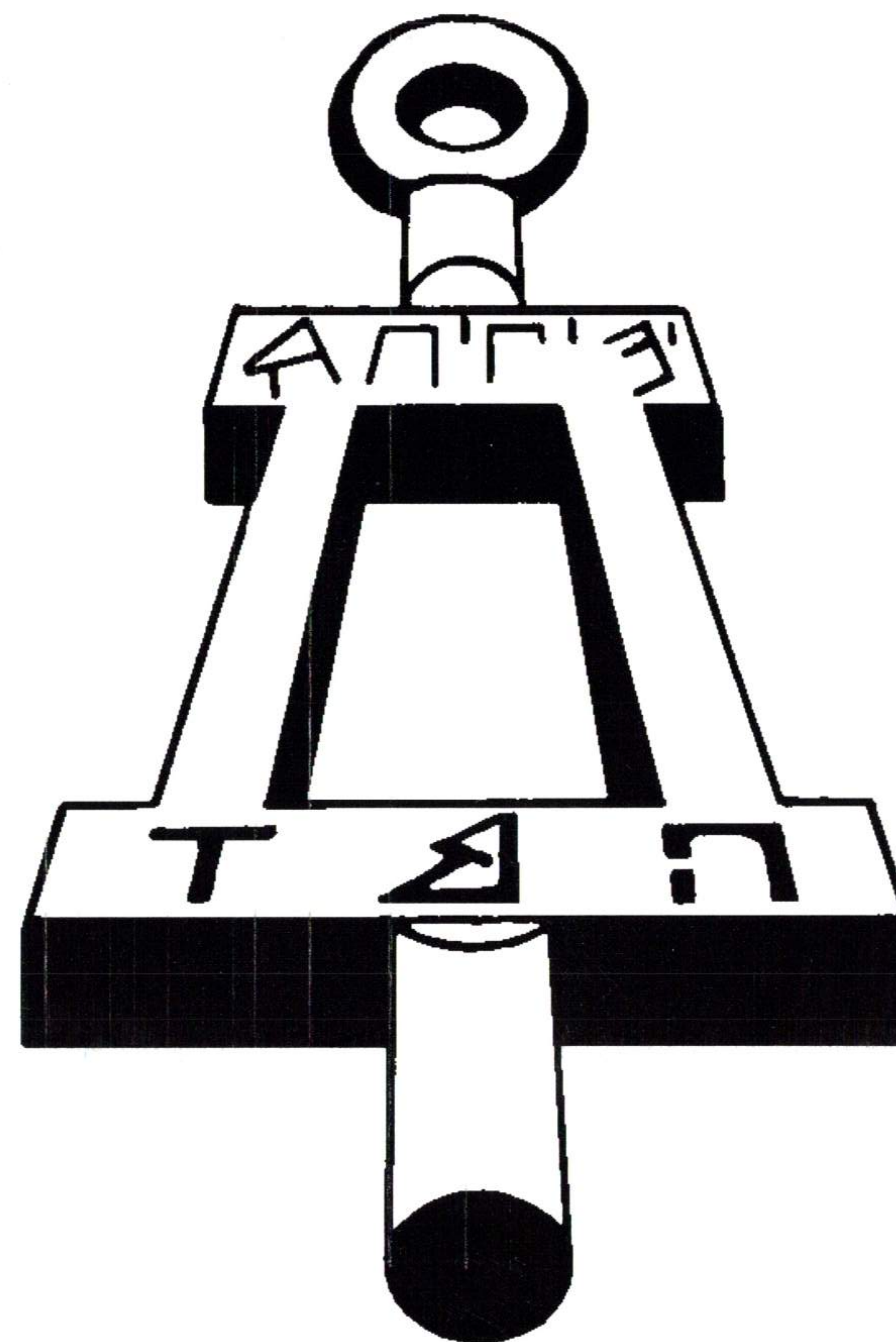


District Directors

1. Henry H. Houh, MA B '89, Somerville, MA
Sarath Krishnaswamy, MA B '91, Chelmsford, MA
Keith S. Wilberg, CT B '95, Stamford, CT
2. Lisa C. Pawlak, NY N '97, Pennellville, NY
Thomas A. Pinkham IV, MA E '88, Rochester, NY
Jason Rogan, NY II '92, New York, NY
Henry R. Szwed, NJ I '95, Clifton, NJ
3. Nila D. Bhakuni, OH K '89, New Kensington, PA
Michael D. Malmstrom, PA I '97, Phoenixville, PA
4. Donald W. Ausherman, MD B '79, Laurel, MD
J.S. Bibb III, AL A '90, Apex, NC
Russell L. Werneth, MD B '64, Owings, MD
5. Lian-Kai "Jimmy" Lin, FL A '97, Smyrna, GA
Russell W. Pierce, WA A '70, Cocoa Beach, FL
John D. Reynolds, SC B '85, Columbia, SC
6. Karen Casey, PA Θ '93, Yardley, PA
Joseph J. Hanby, AL I '79, Birmingham, AL
Ellen D. Styles, AL Δ '85, Huntsville, AL
7. Annette M. Brenner, OH K '92, Lexington, KY
Barry L. Frost III, MI A '93, South Lyon, MI
Heather E. Havens, CA M '95, Royal Oak, MI
Elizabeth A. Stephan, OH K '93, Stow, OH
8. Michael J. Cunningham, NJ B '94, Greenwood, IN
Stacey L. Forkner, WI A '96, Waterford, WI
Joseph G. Macro, IL A '91, Chicago, IL
9. Charles W. Caldwell, CA A '64, Fayetteville, AR
E. Randolph Fowler, KS I '57, Manhattan, KS
10. Kelly J. Hammar, IA A '90, Houston, TX
Daniel A. Kamat, TX A '97, Austin, TX
Anny B. Mosher, NM B '88, Brusly, LA
11. Christina M. Harrison, TN A '93, Plymouth, MN
James C. Hill, CA I '62, Ames, IA
12. Jack M. Meena, WY A '91, Cheyenne, WY
Larry A. Simonson, SD A '69, Rapid City, SD
13. Richard W. Mead, CO I '63, Albuquerque, NM
Rick I. Zadoks, IN A '83, El Paso, TX
14. Edward L. Tezak, ID A '88, Everett, WA
15. Sherry D. Jennings-King, TN A '93, Pleasanton, CA
Bjorn A. Jensen, CA M '94, Pleasant Hill, CA

The Tau Beta Pi Association 93rd National Convention — Program —



**October 8-10, 1998
Manhattan, Kansas**

THE TAU BETA PI ASSOCIATION
INCORPORATED
NATIONAL ENGINEERING HONOR SOCIETY
MEMBER OF ASSOCIATION OF COLLEGE HONOR SOCIETIES



KANSAS GAMMA CHAPTER
KANSAS STATE UNIVERSITY
261 RATHBONE HALL
MANHATTAN, KS 66506-5204

October 8, 1998

Dear Fellow Tau Beta Pi Members,

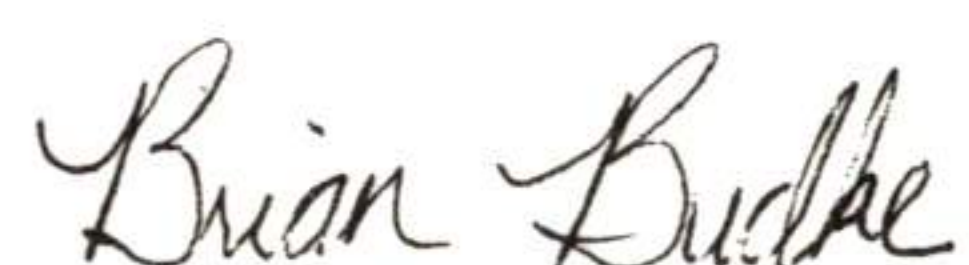
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Sincerely,


Brian Budke
Convention Arrangements Chair


Elizabeth Verderber
President, Kansas Gamma Chapter

Tau Beta Pi Officers

Executive Council, 1994-98:

President: Edward D. Basta, Director of Quality Assurance and Training, Atlas Steel Products Co., Chesterland, OH

Vice President: E. William Beans, retired, Professor Emeritus of Mechanical Engineering, University of Toledo, Sylvania, OH

Councillors:

Robert O. Barr Jr., retired, Associate Chair and Associate Professor of Electrical Engineering, Michigan State University, Okemos, MI

Molly K. Brennan, Farmington Hills, MI

John R. Luchini, Manager, Computational Modeling, Cooper Tire and Rubber Co., Findlay, OH

Executive Council, 1998-2002:

President: Douglas M. Green, Associate Dean for Research, Whiting School of Engineering, Johns Hopkins University, Timonium, MD

Vice President: Edward J. D'Avignon, Lead Designer, Advanced Cryptographic Design and Development, IBM Corporation, Kingston, NY

Councillors:

Jerome A. Atkins, Dean of Technology & Engineering Programs, Regents College, Albany, NY

George D. Peterson, Executive Director, ABET, Annapolis, MD

Catherine P. Rice, Special Assistant, Maryland State Highway Administration, Ellicott City, MD

National Officers:

Director of Fellowships: D. Stephen Pierre Jr., Supervising Engineer, Alabama Power Co., Mobile, AL

Director of Rituals: Alan R. Hirsch, Consultant in Computer Systems, Westcliffe, CO

Director of Engineering Futures: Ronald M. Hickling, President, TechnoConcepts, Newbury Park, CA

Secretary-Treasurer and Editor: James D. Froula, Knoxville, TN

Assistant Secretary-Treasurer: Roger E. Hawks, Knoxville, TN

Convention Leaders

Convention Arrangements Chair Brian J. Budke
 Convention Treasurer Danna J. Lethbridge

Convention Committee Chairs:

Banner Aaron W. Orsborn
 Corporate Donations & Duplication Jennifer A. Wright
 Group Photo Aaron W. Orsborn
 Guests' Program & Tours Elizabeth R. Verderber
 Head Table Seating & Meals Laura N. Buller
 Hospitality Kansas Alpha & Missouri Alpha Chapters
 Initiation Christopher L. Webster
 Physical Facilities Stephen M. Nicholls
 Publicity & Webpage Bradley L. Guenther
 Registration Laura N. Buller
 Souvenir Brian J. Budke
 Transportation Eric B. Dalton



Convention arrangers and committee chairs are: front row (L-R), J.A. Wright, L.N. Buller, H.V. Rectanus, D.J. Lethbridge, and Dr. E.R. Fowler; middle row, E.R. Verderber, Dr. S.K. Starrett, E.B. Dalton, and B.J. Budke; top row, C.L. Webster, C.A. Burgardt, and T.S. Brin.

K-State in '98!



The Kansas Gamma Chapter of Tau Beta Pi at Kansas State University proudly welcomes Tau Bates from across the nation to the "Little Apple," Manhattan, Kansas, for the 1998 national Convention. With this year marking Kansas Gamma's 25th anniversary, we are excited and proud to be your hosts for this event.

The "Little Apple," 125 miles west of Kansas City and located just off I-70, is home to more than 40,000 people. Manhattan is nestled among the picturesque Flint Hills, so named for their numerous bands of limestone and flint. This region remains largely untouched by the plow and is the last large preserve of native tallgrass prairie in the United States. To experience the history of this region, visitors can take in the Riley County Historical Museum, the Goodnow House Museum, and the Wolf House Museum, all located in Manhat-

tan. Within a short driving distance are also the historic sites of Fort Riley, founded in 1863; Council Grove, an early meeting place for trappers and traders on the Santa Fe Trail; and Abilene, home of the Dwight Eisenhower Museum and Presidential Library.

Kansas State University, founded in 1863, is a nationally recognized comprehensive public university offering excellent academic programs, a lively intellectual and cultural atmosphere, and a friendly campus to its approximately 20,000 students and the surrounding community. It provides more than 200 undergraduate programs and options, 60 master's programs, and 42 doctoral programs. The main 664-acre campus is in Manhattan, with the Salina campus 70 miles west of Manhattan housing the college of technology and aviation. Additional university sites include 18,000 acres in branch locations of the Agricultural Experiment Station and 8,600 acres in the Konza Prairie Research Natural Area.

With enrollments of nearly 2,600 undergraduate and 500 graduate students, K-State offers the largest, most comprehensive college of engineering in the state. Degree programs, options, and specializations are available in virtually every major or related field of engineering. Research opportunities abound as the college of engineering houses several institutes and centers, including one of five national EPA hazardous substance research centers, the Advanced Manufacturing Institute, the Institute for Environmental Research, and the U.S. Department of Transportation's mid-America transportation center.

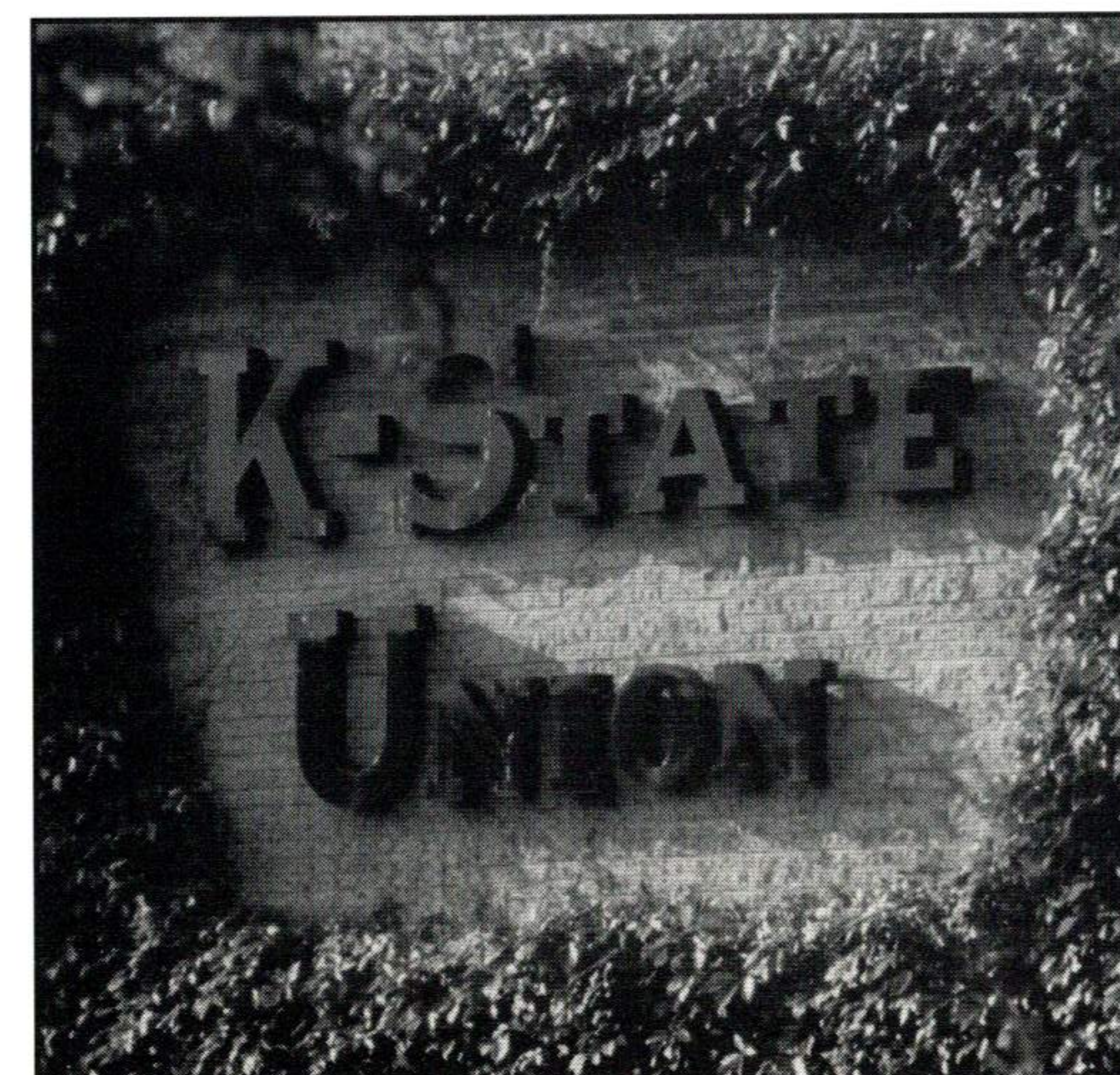
Since its founding on January 27, 1974, Kansas Gamma has proudly carried on the ideals of Tau Beta Pi through the election of members who demonstrate outstanding scholarship, exemplary character, and benevolent service. Its members are excited and proud to be your hosts for the 1998 Tau Beta Pi national Convention.

Officers, Advisors, and Convention Leaders of Kansas Gamma

President.....	Elizabeth R. Verderber
Vice President	Jennifer A. Wright
Recording Secretary	Jason M. Hartman
Corresponding Secretary	Carrie A. Burgardt
Treasurer	Kristopher S. Lander
Cataloger	Christopher L. Webster

Chapter Advisors:

E. Randolph Fowler	<i>Kansas Gamma '57</i>
Larry E. Erickson	<i>Kansas Gamma '60</i>
Bradley L. Guenther	<i>Kansas Gamma '95</i>
Terry S. King	<i>Iowa Alpha '73</i>
Ruth D. Miller	<i>Pennsylvania Epsilon '84</i>
Donald E. Rathbone	<i>Indiana Alpha '51</i>
Shelli K. Starrett.....	<i>Missouri Beta '88</i>



8:00 p.m. Committee, Engineering Futures, & Focus Group meetings, same rooms

9:40 p.m. Forum on issues with Executive Councillors, optional, Regency Ballroom

Saturday, October 10

7:30 a.m. Continental breakfast with District conference hosts, Conference Room V

8:00 a.m. District meetings & continental breakfast (8:00-8:30), Regency Ballroom

9:30 a.m. Third business meeting, Regency Ballroom

10:30 a.m. Refreshments (courtesy of Dolby Laboratories)

10:45 a.m. Third business meeting, continued

12:00 noon Buses to campus (until 12:30)

12:15 p.m. Luncheon, K.S.U. Rathbone Hall

1:30 p.m. Model Initiation, Forum Hall, K.S.U. Student Union

2:30 p.m. Group photo, East Stadium

2:45 p.m. Buses to hotel (until 5:00)

2:50 p.m. Campus Tours & Free time

3:00 p.m. Chapter Advisor wrap up meeting, Conference Room V

6:30 p.m. Initiation & Awards Banquet, Final business meeting, & adjournment, Regency Ballroom

9:00 p.m. Post-Convention relaxation, Optional, Aggieville

The Association gratefully acknowledges the following institutions which have made contributions in support of this Convention:

Dolby Laboratories
Exxon Research and Engineering Co.
Fluor Daniel
Lockheed Martin
Lubrizol
MEMC Electronics Materials, Inc.
Mitchell Energy & Development Corp.
Motorola
Phillips Petroleum Company
QST Environmental
Schlumberger Technology Corp.
Southwestern Bell Telephone
United Technologies, Pratt & Whitney

**The Tau Beta Pi Association
1998 Convention Schedule**

Thursday, October 8

9:00 a.m. - 2:50 p.m.	Convention registration (Holiday Inn), area tours, and free time
9:00 a.m.	Headquarters display, lobby
2:50 p.m.	Credentials deadline
3:00 p.m.	First business meeting, Regency Ballroom
4:10 p.m.	Committee, Engineering Futures, & Focus Group meetings

Committee	Room
Constitution & Bylaws	Conf. Rm V
Financial Affairs	Conf. Rm IV
Rituals	Conf. Rm II
Convention Site	Conf. Rm III
Resolutions	Conf. Rm I
Awards	Konza & Sunflower
Standard of Excellence (<i>ad hoc</i>)	Room 251
International Chapters (<i>ad hoc</i>)	Room 217
Engineering Futures	Alcoves A & B Rms 317 & 349
	Ping-Pong area
	Game Room
	TBD
Focus Group	

5:20 p.m.	District meetings
-----------	-------------------

District	Room
1	Konza
2	Conf. Rm III
3	Conf. Rm IV
4	Sunflower
5	Room 317
6	Ping Pong area
7	Conf. Rm II
8	Conf. Rm I
9	Alcove A
10	Alcove B
11	Preconvene area
12	Room 251
13	Room 349
14	Game Room
15	Conf. Rm V

5:20 p.m.	Orientation for committee chairs, Room 217
6:30 p.m.	Welcoming dinner — District grouping, Regency Ballroom
8:00 p.m.	Committee, Engineering Futures, & Focus Group meetings, same rooms
9:30 p.m.	Advisor/Alumnus delegate meeting, Plum Tree

Friday, October 9

7:30 a.m.	Breakfast, individual option																																
8:30 a.m.	Second business meeting, Regency Ballroom																																
10:40 a.m.	District meetings, same rooms																																
12:00 noon	Luncheon, Committee grouping, (Secretary's Commendations), Interactive Chapter Exchange presentation, Regency Ballroom																																
1:30 p.m.	Committee, Engineering Futures, & Focus Group meetings, same rooms																																
3:30 p.m.	Refreshments (courtesy of Dolby Laboratories)																																
3:45 p.m.	Interactive Chapter Exchange																																
	<table><tr><th>Group</th><th>Room</th></tr><tr><td>A</td><td>Conf. Rm V</td></tr><tr><td>B</td><td>Conf. Rm I</td></tr><tr><td>C</td><td>Conf. Rm II</td></tr><tr><td>D</td><td>Conf. Rm III</td></tr><tr><td>E</td><td>Conf. Rm IV</td></tr><tr><td>F</td><td>Sunflower</td></tr><tr><td>G</td><td>Konza</td></tr><tr><td>H</td><td>Game Room</td></tr><tr><td>I</td><td>Room 217</td></tr><tr><td>J</td><td>Room 251</td></tr><tr><td>K</td><td>Room 349</td></tr><tr><td>L</td><td>Ping Pong Area</td></tr><tr><td>M</td><td>Alcove A</td></tr><tr><td>N</td><td>Alcove B</td></tr><tr><td>O</td><td>Preconvene area</td></tr></table>	Group	Room	A	Conf. Rm V	B	Conf. Rm I	C	Conf. Rm II	D	Conf. Rm III	E	Conf. Rm IV	F	Sunflower	G	Konza	H	Game Room	I	Room 217	J	Room 251	K	Room 349	L	Ping Pong Area	M	Alcove A	N	Alcove B	O	Preconvene area
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6:30 p.m.	Dinner, ICE grouping, Project Awards, Regency Ballroom																																



Amateur Radio Link Aids Manhattan Convention

TAU BETA PI

As the reality sunk in that Kansas Gamma (Kansas State University in Manhattan, Kansas) would be hosting the 1998 Convention, the Chapter lost no time in seeking help from other chapters in District Nine, particularly to ease the logistic burden of most convention delegates arriving at the airport in Kansas City. While the maps show Manhattan to be 110 miles west of Kansas City, the road mileage from the airport to the Convention Hotel is more nearly 125 miles, easily a two hour bus ride.

The chapters located in Lawrence, Kansas (Kansas Alpha) and Independence, Missouri (Missouri Alpha sub-chapter) were recruited to help man the Tau Beta Pi arrival desk at the airport. It was deemed necessary to meet planes at the three-terminal complex to instruct attendees how to get to the location where the busses were loading.

Prudence dictated that the planning include preparations for the possibility that inclement weather in virtually any part of the nation would cause flights to come in late, and possibly cause missed connections for some convention attendees. Having ready and even continuous contact between the Convention headquarters and the airport arrival desk seemed a requirement.

The possibility of using cellular 'phones seemed promising, but could become expensive not only because of the cost of special activations at the terminals but if a lot of usage were required as a result of poor weather conditions resulting in lots of changes in arrival times and bus departures, etc.

Armed with these considerations, an alternative was proposed. Recent changes in FCC regulations had removed a cloud concerning the legality of using amateur radio to further the "regular business" of any entity, and the regularity of the Annual Convention could have fallen under this interpretation. But the FCC clarified that public service use of amateur radio was legal for special events that occurred infrequently, and once a year was well within the definition of infrequent.

Dr. Norm Dillman of the Electrical and Computer Engineering Department at Kansas State University, and one of several hams on the faculty, undertook to test the feasibility and reliability of the possible circuits that could be used. He considered the ability to talk directly from the airport desk to the headquarters registration desk was a must, and the portability of VHF equipment and antennas meant that medium would likely be required, at least at the terminals. The distance between the two points was distinctly "over the horizon" which hindered direct propagation between the two points. On the other hand, high frequency propagation was quite variable during the day and few amateurs were equipped to interconnect their HF gear to the VHF bands.

The solution took the following form. Greg Cerny, Sr., WQ0P, of Belvue, Kansas, had a station capable of bouncing VHF signals (440 MHz) off the moon. He also could receive the Clay County Amateur Radio Club repeater (which was easily accessible from the airport with a hand held transceiver) and relay it automatically via the 440 MHz equipment beamed directly toward Manhattan, Kansas.

There, Norm connected an automatic relay between his own 440 transceiver and a two-meter transceiver operating on simplex that was readily copied at the headquarters desk!

Norm and Greg, with the help of their wives who are also hams, tested this circuit during the days before the Convention started and found it to be better than 95% reliable and apparently capable of meeting the communication needs of the arrival phase of the Convention. Licensed operators were recruited from the District Nine attendees to serve as control operators at the two terminals and the connection was ready for business. These included Dr. Eddie Fowler, Chief Advisor of Kansas Gamma, who is an amateur radio operator, and was scheduled to be at the headquarters desk anyway!

Ready for the worst the weather had to offer, the reality was that the weather on Wednesday and Thursday, when the throng of arrivals peaked, was ideal. All flights arriving at the Kansas City airport were either on time or slightly early. Every passenger was accommodated on the bus that had originally been scheduled for him or her, and the communication link actually carried only confirmation that all was as planned. Only two passengers arrived after the last bus left, and that being known beforehand, alternate shuttle transportation was used. The fact that the communication link may not have been needed was overshadowed by the knowledge that Kansas Gamma was prepared if it had.

10/26
Bennett,
Thank you!
Excellent.
Can you e-mail the
text or send on shuttle?
Thanks,
Jeri

Jim -
This is the
item on
communication at
KS that I
decided I would
prepare!
Bennett

10/26/98

R J needs disk!

Message for tbp

From: "Bennett Basore"
Date: Mon, Nov 2, 1998 4:54 PM
Subject: No subject given
To: tbp
File(s): TBP-LINK.DOC



Jim,
 If all goes well, here is an electronic version of the communication
 link story. Bennett

----- MIME Information follows -----

--simple boundary
 Content-Type: text/plain; charset=US-ASCII
 Content-Transfer-Encoding: 7bit
 Content-Description: "cc:Mail Note Part"

<<<<< See above "Message Body" >>>>>

--simple boundary
 Content-Type: application/octet-stream; name="TBP-LINK.DOC"
 Content-Transfer-Encoding: base64
 Content-Disposition: attachment; filename="TBP-LINK.DOC"

<<<<< See Enclosure named "TBP-LINK.DOC" >>>>>

--simple boundary--

----- RFC822 Header Follows -----

Received: by sense.engr.utk.edu with ADMIN;2 Nov 1998 16:40:19 -0400
 Received: from okway.okstate.edu (139.78.100.105) by listserv.okstate.edu (LSMTP
 for Windows NT v1.1a) with SMTP id <0.5126D060@listserv.okstate.edu>; Mon, 2 Nov
 1998 14:37:29 -0600
 Received: from ccMail by okway.okstate.edu (ccMail Link to SMTP R8.30.00.7)
 id AA910042641; Mon, 02 Nov 1998 15:37:23 -0600
 Message-Id: <9811029100.AA910042641@okway.okstate.edu>
 X-Mailer: ccMail Link to SMTP R8.30.00.7
 Date: Mon, 02 Nov 1998 15:36:23 -0600
 From: "Bennett Basore"<bbasore@okway.okstate.edu>
 To: <tbp@tbp.org>
 Subject: No subject given
 MIME-Version: 1.0
 Content-Type: multipart/mixed; boundary="simple boundary"

OK by JF - 8/27/98

KANSAS GAMMA CHAPTER
KANSAS STATE UNIVERSITY
261 RATHBONE HALL
MANHATTAN, KS 66506-5204

October 8, 1998

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Sincerely,

Brian Budke
Convention Arrangements Chair

Elizabeth Verderber
President, Kansas Gamma Chapter

FALL '98
THE TAU BETA PI ASSOCIATION
OFFICER ELECTION REPORT

(9)

Date completed 11-10-97 Chapter Kansas Gamma

To the Secretary of the Association:

It is hereby certified the following members were elected officers of this Chapter on 10-21-97
(Date of Election)

Their terms of office begin 6-1-98 ; expire 1-1-99
(Date) (Date)

✓ **President** Elizabeth R. Verderber
(Full Name)
517 Fairchild Terr.; Manhattan, KS 66502; (785)-770-9002; elizver@ksu.edu
(College address, phone number, & e-mail address)

5605 W. 158th Terr.; Overland Park, KS 66223;
(Permanent home address & phone number)

✓ **Vice-President** Jenny Jennifer Wright Jennifer Anne
(Full Name)
1010 Kearney Apt 1; Manhattan, KS 66502; (785)-776-9684; jennywr@ksu.edu
(College address, phone number, & e-mail address)
410 W. Hwy 50; Lakin, KS 67860;
(Permanent home address & phone number)

✓ **Recording Secretary** Jason Hartman Jason Michael
(Full Name)
523 Goodnow Hall; Manhattan KS 66506; (785)-395-5381; jmhart@ksu.edu
(College address, phone number, & e-mail address)
5937 Caenen St.; Shawnee, KS 66216;
(Permanent home address & phone number)

Corresponding Secretary Carrie A. Burgardt
(Full Name)
1010 Kearney Apt 1; Manhattan KS 66502; (785)-776-9684;
(College address, phone number, & e-mail address)
PO Box 711; Lakin, KS 67860;
(Permanent home address & phone number)

✓ **Treasurer** Kris Lander ~~Christopher~~ Christopher S.
(Full Name)
138 Marlatt Hall; Manhattan, KS 66506; (785)-395-3931; ksl2279@ksu.edu
(College address, phone number, & e-mail address)
5711 W. 84th St.; Overland Park, KS 66207;
(Permanent home address & phone number)

✓ **Cataloger** Chris Webster Christopher Lee
(Full Name)
2074 College Hts; Manhattan, KS 66502; (785)-539-5392; critter@ksu.edu
(College address, phone number, & e-mail address)
1003 Central Ave.; Dodge City, KS 67801;
(Permanent home address & phone number)

New/re-elected Advisor _____
(Title) (Name) (Tau Beta Pi Chapter and Class)
Term expires _____
(Date) (School phone number, fax, & e-mail)

(School address)

(Home address & phone number)

Replaces _____
(Name) (Address if new)

Signed Ruth Alexander President Brian Budke Secretary

Notes: This report is to be filled out, signed, and sent to the Secretary immediately after each election. See Bylaw V, Sec. 5.01. A \$2.00 fine will be levied for failure to report the election within two weeks. See Bylaw VIII, Sec. 8.01(b). Attach additional sheet if necessary.

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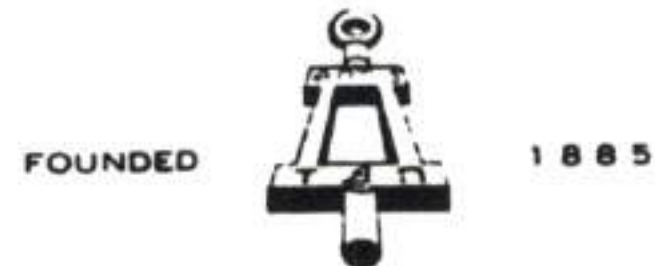
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FOUNDED



1885

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Welcome to the 1997 National Convention hosted by the Kansas Gamma Chapter and Kansas State University. Our Chapter is very excited about these next few days, and we hope you have an enjoyable and memorable experience.

Kansas State University is nestled in the Flint Hills. We feel that the Flint Hills is a tourist attraction that people from around the country wouldn't be able to see anywhere else. We've arranged for scenic hiking tours in the Flint Hills for Thursday morning of the convention. We also arranged for guest tours at the Eisenhower Museum in Abilene, Kansas. For night life entertainment, Manhattan's Aggieville overflows with fun.

The Convention Headquarters will be located on the ground floor of the Holiday Inn. Materials given to you at registration cover most of the pertinent information. However, please feel free to approach us at any time with questions you have.

We're glad you chose to come to our convention here at Manhattan. We hope you enjoy your time at the 1998 National Convention.

Sincerely

Brian Budke
Convention Arrangements Chair

Elizabeth Verderber
President, Kansas Gamma Chapter

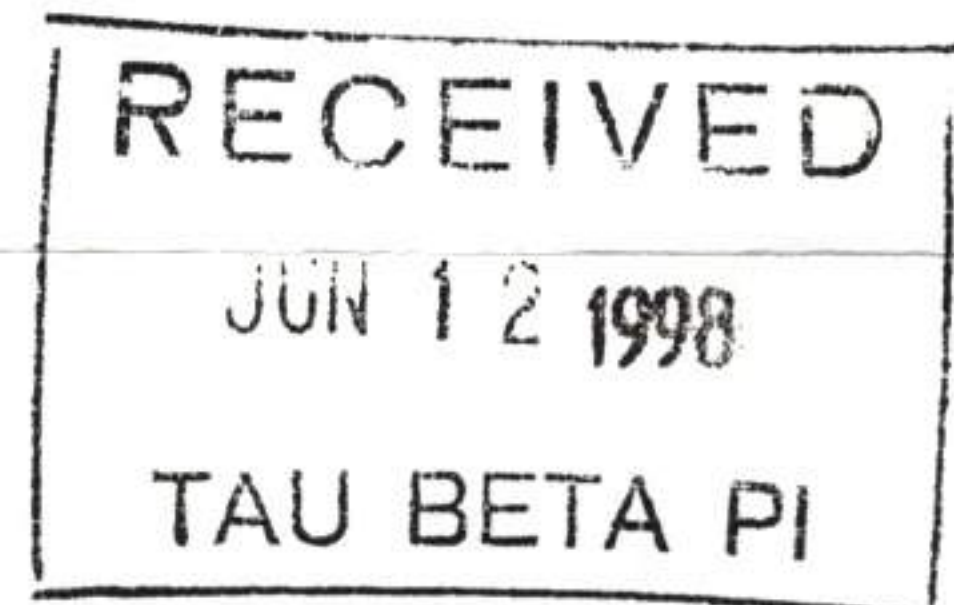
Roger,

The order in our group photo was the following: front row (L-R), Jennifer Wright, Laura Buller, Heather V. Rectanus, Danna Lethbridge, and Dr. Randolph Fowler; middle row, Elizabeth Verderber, Dr. Shelli K. Starrett, Eric Dalton, and Brian Budke; top row, Chris Webster, Carrie Burghart, and Troy Brin.

We arranged for a few member/guest attractions. Konza Prairie tours is the main tour of the convention. The Konza Prairie is a preserved grassland in the Flint Hills. It's used as a wildlife research area to study natural and man-made effects on the land. Three-mile hikes through the Flint Hills provides an educational and pleasant experience. The tours begin on Thursday morning of the convention. Two buses leaving from the Holiday Inn will transport people to the prairie.

Another tour we arranged for is a tour of the Eisenhower Museum and Chapel in Abilene, Kansas. The tours in Abilene will be Friday of the convention. Dinner will be served at the Kirby House, and the Seelye House may also be toured. The houses are all listed on the National Register of Historical Houses. These tours are provided only for guests other than members to the convention. On Saturday morning, guests may take tours of the Beach Art Museum on the Kansas State University Campus.

Guests are also free to take their own tour of Sunset Zoo in Manhattan.



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Banner

Aaron Orsborn - Aaron William Orsborn - KSG '99

Corporate Donations & Duplication

Jennifer Wright - Jennifer Anne Wright - KSG '99

Group Photo

Aaron Orsborn -

Queens' Program & Tours

Elizabeth Renee Verderber - KSG '99

Hand Table Caring & Mes's

Laura Nicole Buller - KSG '99

Chapter

- Christopher Lee Webster KSG '99

Stephen M. Nicholls

- Bradley Lynn Guenther KSG '95

- KSG '97

Transportation

Eric Dalton - Eric Bradley Dalton - KSG '99



District 1 Delegates

The Cleveland Convention

THE LARGEST GATHERING of Tau Bates ever participated in the business of the 90th Convention in Cleveland, Ohio, October 12-14, 1995. These 499 members represented 202 collegiate chapters, seven alumnus chapters, three institutions seeking Tau Beta Pi chapters, and the national organization. Of the total, 380 were students and 119 were alumni. Chapter advisors totaled 30, all invited and many partially reimbursed by the national organization; 21 non-member guests, petitioners, and consultants participated, several enjoying special tours and the banquets.

The Ohio Alpha, Epsilon, and Kappa Chapters at Case Western Reserve University, Cleveland State University, and the University of Akron were official hosts of the ninth national meeting held in the city that hosted the first Tau Beta Pi Convention on May 28, 1895. The general arrangements chair for this meeting was Judy A. Birt, OH K '96. She, Ohio Alpha President Heidi B. Martin — who arranged the special Centennial-of-the-Convention entertainment — Ohio Epsilon



*Heidi B. Martin
OH A President*

President Daniel J. Walker, and Ohio Kappa President Michele L. McKee led the host-committees for such duties as transportation, registration, housing, meals, tours, guest programs, souvenir, publicity, and hospitality.

Headquarters for the national meeting was the Sheraton City Centre Hotel, where all of the delegates were housed, four meals were enjoyed, and all business meetings were held. Convention-goers toured the CWRU campus and engineering departments on Saturday afternoon after a buffet luncheon in the Carlton Commons, and the model initiation was conducted in Ford Auditorium several blocks down the street.

At the welcoming banquet, Director of Engineering Futures Ronald M. Hickling encouraged his listeners to develop their interpersonal teamwork skills and to take advantage of the Engineering Futures Program sessions, both during the Convention and also on their own campuses.

The Convention formally opened in the hotel on Thursday afternoon. It closed on Saturday night with the Initiation and



*Ronald M. Hickling
Engineering Futures*

Awards Banquet in the Grand Ballroom of the hotel — followed by delegate visits to the Flats entertainment district bordering Lake Erie. Four business meetings were held, starting with Thursday's opening session when the President's report for the Executive Council was presented and ending with the final business actions on the banquet program on Saturday evening, when four Tau Beta Pi Laureates, the Tau Beta Pi Outstanding Advisor, and national chapter award winners were introduced.

Almost all business at Tau Beta Pi Conventions is handled by committees. Seven standing committees are called for in the Constitution, and every collegiate chapter voting delegate served on a team. Full details of the business meetings are recorded in the official minutes and in some detail in the December 1995 BULLETIN. Major actions of the Convention are reported in this article.

Three Chapters Granted

In response to petitions received last year, three new collegiate chapters of Tau Beta



*Judy A. Birt
Arrangements Chair*



*M.S. Williams
U. of Ak.*

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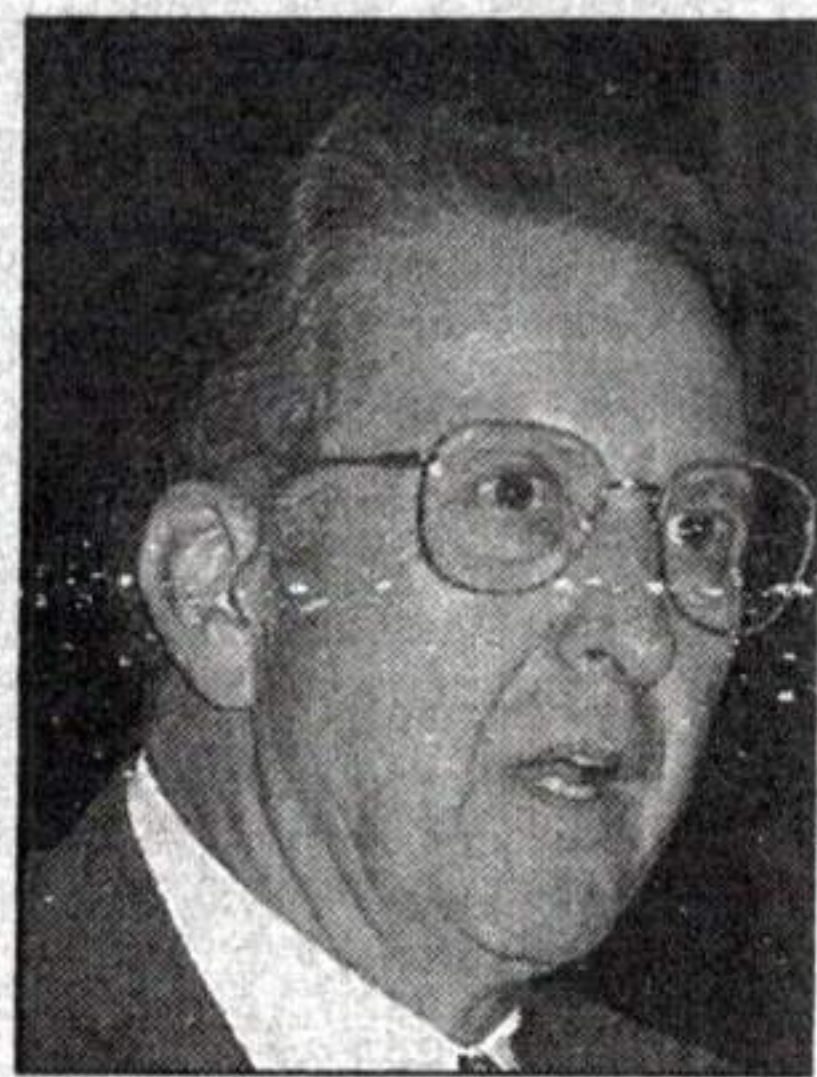


*The 1994-95
President B*

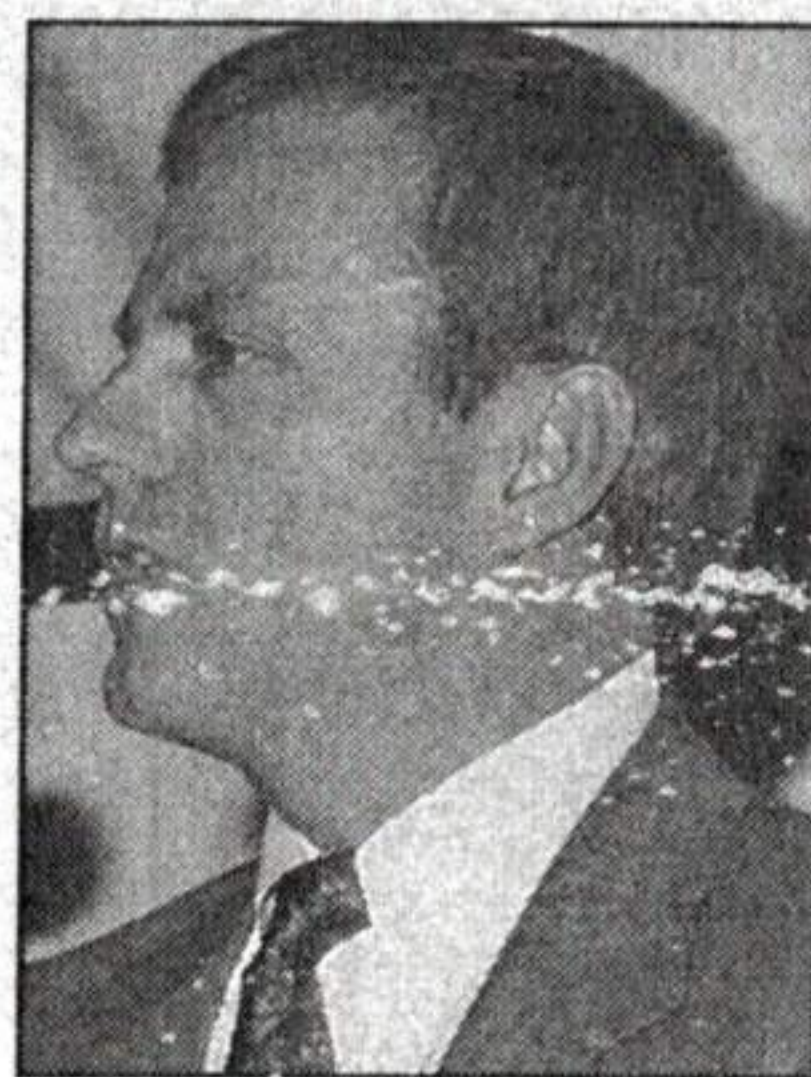
Winter 19



M.S. Willis Jr., PA B
U. of Akron dean



N.D. Sylvester, OH Δ
U. of Akron v.p. of R&D



D.S. Pierre Jr., AL E
Dir. of Fellowships



C.A. Van Ummersen
Cleveland St. U. pres.

Pi were granted by the Convention. The successful petitioners were local groups at the University of Minnesota Duluth, Harvey Mudd College, and California State University, Chico. Each petitioning group was represented at the Convention by one or two student officers and an alumnus advisor. Installation ceremonies are planned for Minnesota Beta on February 3, California Omega on February 10, and California Alpha Alpha on March 2, 1996, in Chico. This will raise the number of active collegiate chapters of Tau Beta Pi to 218.

Chapter Programs & Practices

Understanding the complexity of Tau Beta Pi's financial status presents problems to students, but the Financial Affairs Committee democratically reviewed all financial matters, including the Secretary-Treasurer's and auditor's reports, reported its approval of them to the Convention, and concluded that Tau Beta Pi's finances are in sound order.

The committee recommended, and the Convention adopted, specific allowable Convention expenses beyond those specified in the Bylaws for delegates to the 1996 meeting. Delegates also decided to use the 1995 expense reimbursement schedule for the 1996 Convention.

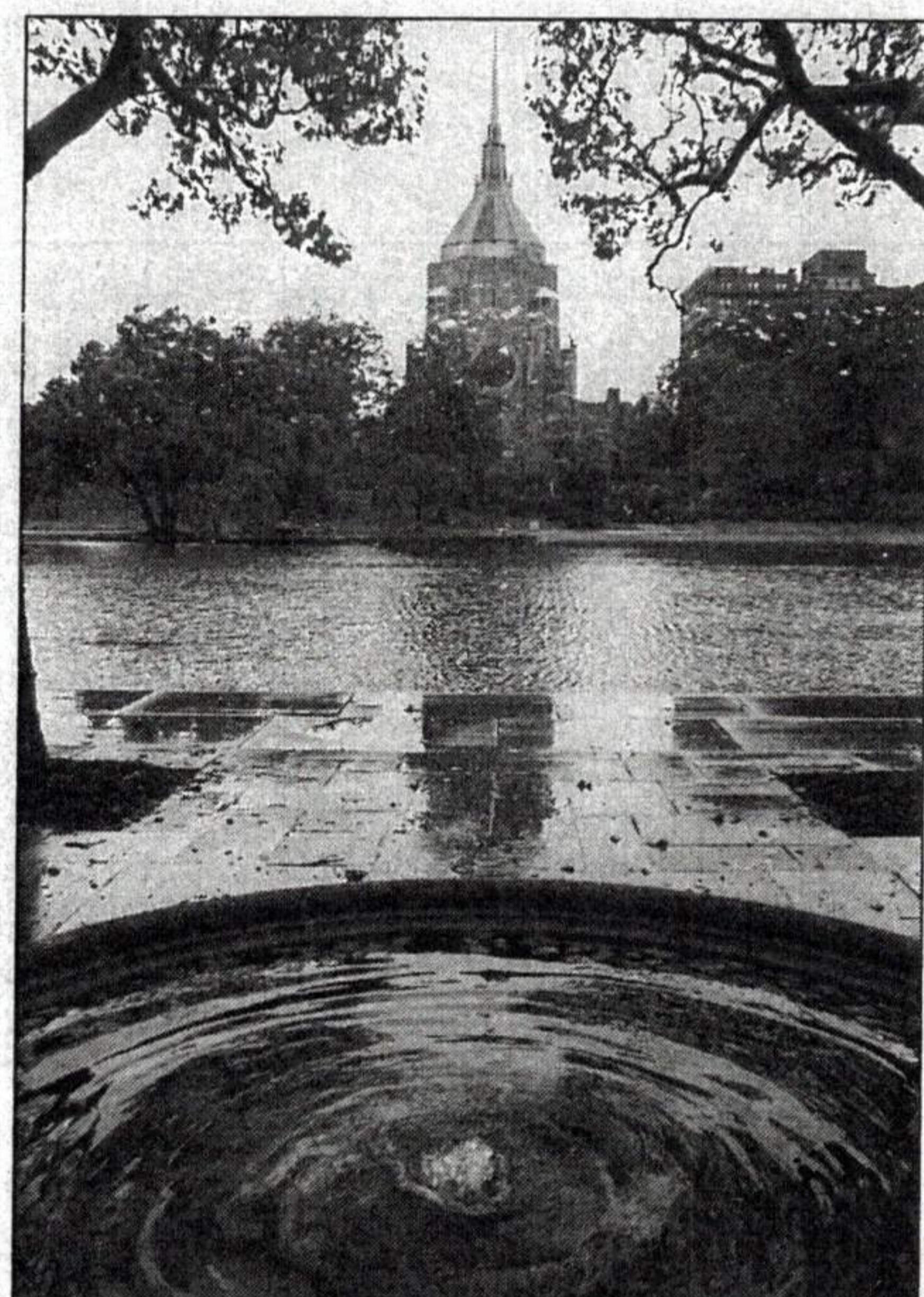
The group also recommended that the 1996 delegates consider raising the Convention assessment from \$3 to \$7 to increase revenue for future meetings, but

declined to extend the Convention by one day. Finally, the committee revised the procedures for dealing with chapters in financial difficulty and clarified one instruction about expenses in the literature mailed to attenders.

Three topics had been referred to the Constitution and Bylaws Committee for study and recommendation. After careful consideration, the Convention approved by the required three-fourths favorable vote only one Constitutional amendment: to name collegiate chapters by the *Alpha Alpha*, *Alpha Beta*, ... designation after the letter *Omega* is used; final approval is subject to chapter ratification.

The Rituals Committee recommended that one change in the instructions for the initiation ceremony be made. This revision draws attention to the optional sections of the ceremony and the reference in the Constitution regarding the procedures for excluding optional sections. The team also helped to organize an impressive model initiation ceremony for the Ohio Alpha, Epsilon, Kappa, and Lambda Chapters on a cool, rainy Saturday afternoon.

The Awards Committee worked long hours, as usual, in reviewing the 1994-95 records of the chapters and in selecting the winners of the R.C. Matthews Outstanding Chapter and the R.H. Nagel Most Improved Chapter Awards. Announcements of the winners, including those for a new Scholarship Program, are reported in detail on pages 48 and 49.



The Convention was a time for reflecting. The Temple Museum cast a long shadow.



Dr. T.R. Long, West Virginia University associate dean, proudly accepted the outstanding advisor award for his dean of engineering.



The 1994-98 Executive Council, L-R: President E.D. Basta; Dr. R.O. Barr Jr.; M.K. Brennan; Vice President E.W. Beans; and Dr. J.R. Luchini.



This wildcat encouraged the selection of Kansas Gamma to host the 1998 Convention.

1998 Convention in Kansas



KSU Office of Photo Services © 1998

KANSAS GAMMA at Kansas State University invites fellow Tau Bates to enjoy the scenery of the Konza Prairie around Manhattan while attending this annual October event. Located in the "Little Apple," Kansas State started in 1863 as a land-grant school with an enrollment of 106 and has grown to a university of more than 20,000 students. The institution owns or leases more than 14,000 acres in 19 counties for agricultural research.

The college of engineering is home to nearly 2,000 undergraduate and 500 graduate students. Offering degrees in the traditional engineering disciplines, the college has eight departments and is recognized for facilities such as the advanced manufacturing institute, the center for transportation research and training, and engineering outreach programs.

Since its founding at the university on January 27, 1974, Kansas Gamma has proudly carried on the ideals of Tau Beta Pi through the election of members who demonstrate outstanding scholarship, exemplary character, and benevolent service. Its members are excited and proud to be your hosts for the 1998 Tau Beta Pi National Convention. Arrangements Co-chairs **Heather V. Rectanus**, *Kansas Gamma '98*, and **Brian J. Budke**, *Kansas*

Gamma '99, and their enthusiastic crew have booked the Holiday Inn Holidome two miles from the engineering campus to accommodate the 400-plus attenders.

All meetings and four meals will be at the hotel. Attendees will enjoy lunch, view the model initiation, and tour the campus on Saturday. Most delegates, national officers, and other attendees will fly to Kansas City, MO, for the October 8-10 meetings, tours, Engineering Futures sessions, chapter and individual awards, Executive Council installation, and other activities.

Expenses of one student delegate per chapter and the on-site expenses of chapter advisors will be paid by the Association. Nonvoting delegates and alumni are welcome to attend at their own expense. For more information and reservations, contact Assistant Secretary Roger E. Hawks, Tau Beta Pi Convention, P.O. Box 2697, Knoxville, TN 37901-2697 (phone: 423/546-4578; fax: 423/546-4579; e-mail: tbp@tbp.org; or visit our webpage: www.tbp.org) during August.

Tau Beta Pi's 93rd national Convention may be your convention opportunity of a lifetime. Don't miss this wonderful experience!

Send THE BENT to Me

(Detach and mail to: Tau Beta Pi, P.O. Box 2697, Knoxville, TN 37901-2697. Allow four-to-six weeks for subscription to take effect.)

- ☐ I enclose \$60, for which I shall expect to receive THE BENT for life. I will keep you informed of any change of address.
- ☐ I enclose \$12.50 as the first payment for a BENT Life Subscription. Remind me to send \$12.50 each year for the next four years.
- ☐ I enclose \$10, which will keep me on the mailing list of THE BENT for one year. I should appreciate an expiration notice a year from date, so that I may renew without missing any issues.

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City _____ State _____ Zip _____



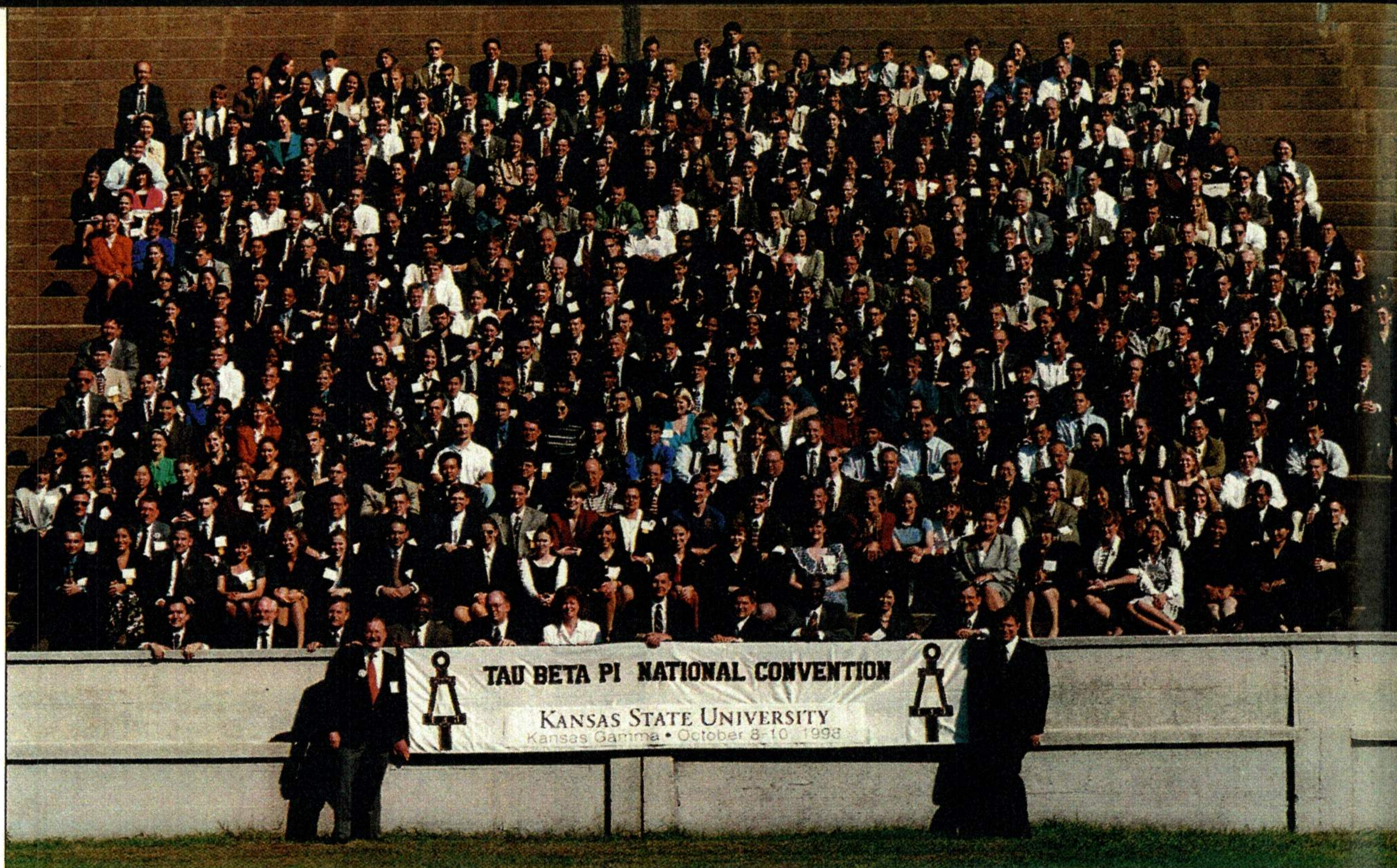
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1998 Manhattan Meeting

THE SIXTH-LARGEST GATHERING OF Tau Bates ever participated in the business of the 93rd Convention — in Manhattan, KS, October 8-10, 1998. These 447 members represented 209 collegiate chapters, three alumnus chapters, and the national organization. Of the total, 321 were students and 126 were alumni.

Chapter advisors totaled 39, all invited and many partially reimbursed by the national organization; 24 nonmember guests, petitioners, and consultants participated, several enjoying special tours and the banquets.

The Kansas Gamma Chapter at Kansas State University was official host of the second national meeting held in its state. The general arrangements chair for this meeting was Brian J. Budke, KS Γ '98, who, with Kansas Gamma President Elizabeth R. Verderber and Advisor Eddie R. Fowler, led the host committees for such duties as transportation, housing, registration, meals, publicity, tours, souvenirs, guest programs, and hospitality.

Headquarters for the national meeting was the Holiday Inn Holidome, where

most of the delegates were housed, four meals were enjoyed, and all meetings were held. Conventiongoers lunched on campus and conducted the model initiation in Forum Hall in the Student Union.

The Convention formally opened in the Regency Ballroom of the hotel on Thursday afternoon. It closed on Saturday night with the Initiation and Awards Banquet in the same room — followed by delegate visits to various social establishments in Manhattan. Four business meetings were held, beginning with Thursday's session, when the President's report for the Executive Council was presented, and ending with the business actions on the banquet program on Saturday, when two Tau Beta Pi Laureates, the National Outstanding Advisor, the winner of the 1998 Standard of Excellence Award, and national chapter award winners were honored.

Almost all business at Tau Beta Pi Conventions is handled by committees. Seven standing committees are called for in the Constitution, and every collegiate chapter voting delegate served on a team. Full details of the business meetings are

recorded in the official minutes and in some detail in the December 1998 BULLETIN. Major actions of the Convention are reported in this article.

Chapter Programs & Practices

Understanding the complexity of Tau Beta Pi's financial status presents problems to students, but the Financial Affairs Committee democratically reviewed all financial matters, including the Secretary-Treasurer's and auditor's reports, stated its approval of them to the Convention, and concluded that the Association's finances are strong and in sound order.

The committee recommended, and the Convention adopted, specific allowable Convention expenses beyond those specified in the Bylaws for delegates to the 1999 meeting. Delegates also decided to use the 1998 expense-reimbursement schedule for the 1999 Convention, except that vehicle mileage reimbursement will increase from 20¢ to 25¢/mile.

Three topics had been referred to the Constitution and Bylaws Committee for study and recommendation. After careful consideration, the Convention approved (by the required three-fourths favorable vote) a package of Constitution and Bylaws amendments to eliminate a requirement for Corresponding Secretaries to report the names/addresses of Advisory Board members — as well as to delete a related phrase overlooked by an amendment



Brian J. Budke
Arrangements Chair



Elizabeth R. Verderber
KS Γ President



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New leader
Jerome A.
M. Green



G.D. Seidel, TX Δ
Rituals Comm. Chair



C.M. Parler, SC B
Awards Comm. Chair



A.L. Messer, MI Θ
Finance Comm. Chair



Dr. E.A. Unger, Woman's
Badge 561, Vice Provost

passed in 1996 (affected were Bylaw III, Sec. 3.01[e][4]; B. V, Sec. 5.03[d][1]; and B. VIII, Sec. 8.01[a], as well as a cross-reference in Constitution Art. VII, Sec. 1[c]); final approval of the changes is subject to chapter ratification. Secondly, the committee recommended, and the Convention adopted, an amendment to Constitution Art. IV, Sec. 2(c), to add the title of Executive Director to that of Secretary-Treasurer; final approval is subject to chapter ratification. Third, the group reviewed the listing of chapter fines in Bylaw VIII and recommended a higher schedule; this amendment was approved by the Convention.

Finally, the group recommended and the Convention adopted an amendment to Const. Art. III, Sec. 6, to delete one sentence overlooked by an amendment that was ratified in March 1998; final approval is subject to chapter ratification.

The Rituals Committee recommended that minor changes in the Ritual be made to prevent situations in which students decline initiation and that a design competition for chapters be held to acquire innovative designs for a change in the equipment controls. The team also helped to organize an impressive model initiation ceremony for the Kansas Gamma Chapter on Saturday afternoon.

The Awards Committee worked long hours in reviewing the 1997-98 records of the chapters and in selecting the recipients of the R.C. Matthews Outstanding

Chapter and the R.H. Nagel Most Improved Chapter Awards. Announcement of these awardees, and the 20 honorees in the newly named Chapter Performance Scholarship Program, are reported in detail on pages 44 and 45. The group also recommended, and the Convention adopted, an amendment to Constitution Art. III, Sec. 2 (b), to replace the Committee on Awards with two committees; final approval of the change is subject to chapter ratification.

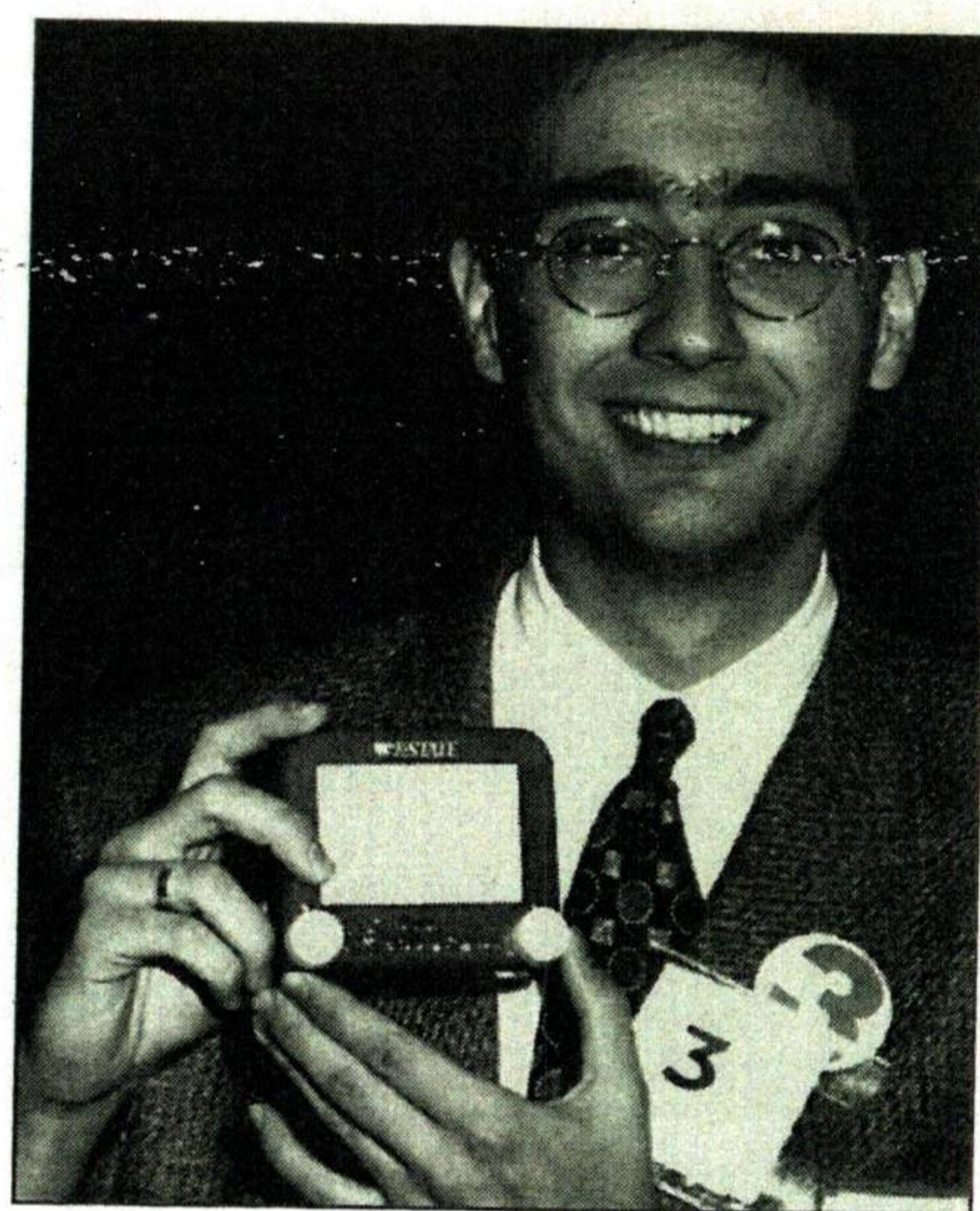
The Convention named The Tau Beta Pi Association Scholarship Program (established by the Executive Council in August) to present awards carrying \$2,000 stipends named in honor of former Secretary-Treasurer Emeritus R.H. Nagel and future donors.

New Executive Council Installed

A highlight of the Convention was the formal installation of the Mid-Atlantic Executive Council during the final banquet program on October 10. President Edward D. Basta and his Great Lakes cohorts, who had faithfully served the 1994-98 term, turned over to incoming President Douglas M. Green and his board the responsibility for leadership of Tau Beta Pi during the next four years. Elected by the 1997 Convention and attending Council meetings during the year, the Mid-Atlantic team presented appropriate desk clock mementoes to the retiring board.



New leaders (L-R): Councillors Catherine P. Rice, MD B '83; George D. Peterson, OH H '72; and Jerome A. Atkins, DC A '63; Vice President Edward J. D'Avignon, NY B '88; and President Douglas M. Green, TX B '65.



George Papayannis, PA Z, with his miniature etch-a-sketch bent.



Seeing double? Double-bent twins Sherry Jennings-King and Christina Harrison, District 15 and 11 Directors.



Laureate Jonathan M. Owens, AL B '98, received a check for \$2,500 and a commendation from Councillor M.K. Brennan, 1982 Laureate.



District 5 delegates posed for posterity.

2001 Convention

The 1998 Convention accepted the invitation from Ohio Gamma to host the 2001 meeting in Columbus. This decision was approved on December 5 by the Executive Council.

National Outstanding Advisor

The attendees were pleased to learn of the 1998 Tau Beta Pi National Outstanding Advisor, John A. Tucker, MA E '49, of Massachusetts Beta. Vice President E.W. Beans presented \$1,000 and a commemorative plaque on Mr. Tucker's behalf to Dr. Thomas W. Eagar, MA B '72, along with another \$1,000 for MIT's engineering college discretionary fund.

1998 Tau Beta Pi Laureates

The delegates enjoyed meeting and hearing the accomplishments of Laureates Jonathan M. Owens, AL B '98, and Guang-Ien Cheng, MA B '97. Councillor Molly K. Brennan presented Mr. Owens with a commemorative plaque and a \$2,500 check (Ien's award was mailed to him in England).

Standard of Excellence Award

The attendees were delighted to hear the accomplishments of the winner of the 1998 Tau Beta Pi Standard of Excellence Award: Dr. William T. Snyder, TN A '54. A \$500 Tau Beta Pi scholarship will be presented in his honor to a student. The selection committee modified selection criteria for the award, renamed it for the last year of its three-year trial period, and decided not to establish a Standard of Excellence in Engineering Award.

Other Business

The 93rd Convention carefully handled all of the routine chores of the Society, including the report of the President.

The International Chapter Committee spent its time evaluating the issues that

are expected to arise when an international institution petitions for a chapter and referred that topic to a task force for further study and to report to the 1999 Convention.

The Image and Marketing Materials (*ad hoc*) team decided that Tau Beta Pi image materials and promotional literature (including posters and brochures) need drastic improvement, prioritized areas for improvement, and then recommended that the Council contract with a firm to develop those materials for the 1999 Convention.

In a brief New Business session, a delegate recommended that:

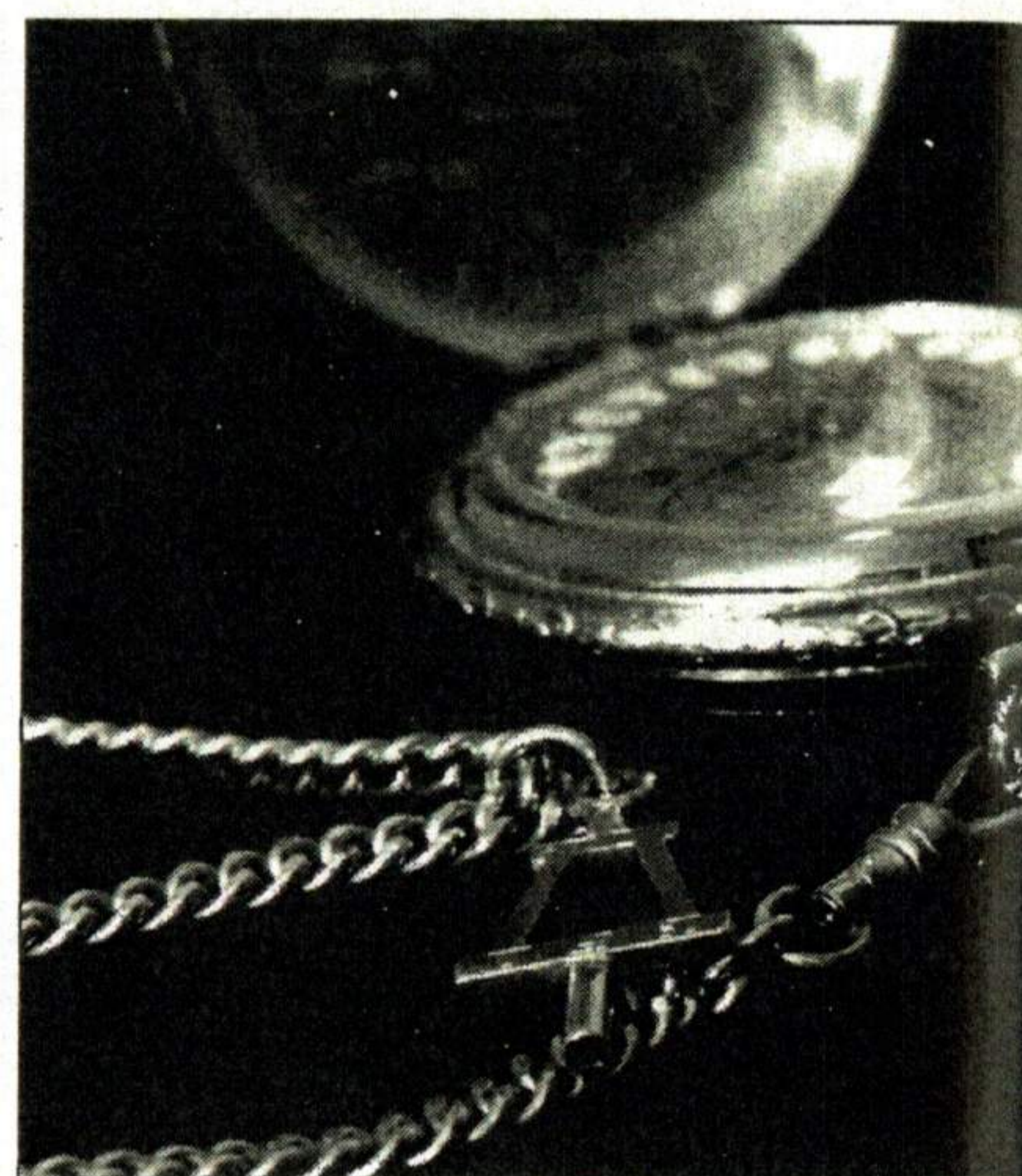
- The Executive Council review processes to establish a new electronic membership reporting system, and
- The Executive Council investigate the construction of a new Tau Beta Pi headquarters building.

The Chapter Development Program, including improved Interactive Chapter Exchanges and Engineering Futures and District meetings, is reported in a separate article in this issue. Many delegates expressed appreciation for the usefulness of the exchanges and the EF sessions.

The Resolutions Committee is always responsible for thanking the appropriate persons for all the good things that happened to the Association during the past year and for closing the Convention with an inspirational message to the delegates. The 1998 team did a splendid job in this respect, as follows:

We express our sincere appreciation to Secretary-Treasurer Emeritus Robert H. Nagel for his 55 years of devoted service to Tau Beta Pi. The Association is forever touched by his legacy.

We hope that many of the new ideas we shared this weekend and the actions of the committees will make running your local chapter an easier, more rewarding experience. More importantly, we hope that your



Dr. John R. Luchini's antique pocket watch, chain, and special gold key that had been presented to him by Robert H. Nagel.

1998 Convention Contributors

The Association most gratefully acknowledges the following firms and individual who generously made contribution in support of the 1998 Tau Beta Pi national Convention:

Andersen Consulting
Cessna Aircraft Company
CITGO
Deere & Company
Dolby Laboratories
The Dow Chemical Company
Exxon Research and Engineering Co.
Fluor Daniel
Gary Edwards
HBE Corporation
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Kansas Gamma Chapter, Tau Beta Pi
Lockheed Martin
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Mitchell Energy & Development Corp.
Motorola
Phillips Petroleum Company
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United Technologies, Pratt & Whitney
United States Navy

new-found friendships formed this weekend will withstand the pressures of distance and time and prove to be continuous sources of ideas and encouragement for years to come. It is our responsibility not to allow all that we have learned at this Convention to fade away. Rather, it is our duty to keep the spirit of the 93rd Convention, the spirit of Tau Beta Pi, as the foundation of all we do. Long after we leave the Flint Hills of Kansas, our renewed pride and commitment to Tau Beta Pi will inspire us to act with honor, to live with integrity, and to perform with excellence. We sincerely thank you!

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TRICT DOINGS

Amateur Radio Link Aids Kansas Convention

As the reality sunk in that the Kansas Gamma Chapter at Kansas State University in Manhattan would host the 1998 Convention, members lost no time in seeking help from other chapters in District 9, particularly to ease the logistic burden of most Convention delegates arriving at the airport in Kansas City. While maps show Manhattan to be 110 miles west of Kansas City, the road mileage from the Convention hotel to the airport is more nearly 125 miles, easily a two-hour bus ride.

Kansas Alpha, located in Lawrence, and Missouri Alpha, at UMKC in Independence, were recruited to help staff the Tau Beta Pi arrival desk at the airport. It was necessary to meet planes at the three-terminal complex to instruct attendees how to get to the location where the buses were loading.

Prudence dictated that planning include preparations for the possibility that inclement weather in virtually any part of the nation could cause flights to arrive late and produce missed connections for some Convention attendees. Having ready and even continuous contact between the Convention headquarters and the airport arrival desk seemed a necessity.

The possibility of using cellular phones seemed promising but could become expensive not only because of the cost of special activations at the terminals but also if high usage were required as a result of poor weather conditions and many changes in arrival times and bus departures.

Armed with these considerations, an alternative was proposed. Recent changes in FCC regulations had removed a cloud concerning the legality of using amateur radio to further the regular business of any entity, and the regularity of the annual Convention could have fallen under this interpretation. The FCC clarified that public service use of amateur radio was legal for special events that occurred infrequently, and once a year was well within the definition of infrequent.



Presidents Basta and Green shake hands on a wager. Doug Green is wearing an Indian's T-shirt in June 1998 because his Orioles team did not win the 1997 American League championship.

Dr. Norm Dillman of the electrical and computer engineering faculty at KSU, and one of several hams on the faculty, undertook to test the feasibility and reliability of the possible circuits that could be used. He considered the ability to talk directly from the airport desk to the headquarters registration desk to be a must, and the portability of VHF-equipment and antennae meant that medium power would likely be required, at least at the terminals. The distance between the two points was distinctly "over the horizon," which hindered direct propagation between the two points. On the other hand, high-frequency propagation was quite variable during the day, and few amateurs were equipped to interconnect their HF gear to the VHF bands.

The solution took the following form. Greg Cerny, WQ0P, of Belvue, KS, had a station capable of bouncing VHF signals (440 MHz) off the moon. He could also receive the Clay County Amateur Radio Club repeater (which was easily accessible from the airport with a hand-held transceiver) and relay it automatically via the 440 MHz-equipment beamed directly toward Manhattan, where Norm connected an automatic relay between his own 440 transceiver and a two-meter transceiver operating on simplex that was readily copied at the headquarters desk!

With the help of their wives, who are also hams, Norm and Greg tested this circuit before the Convention started and found it to be better than 95% reliable and apparently capable of meeting the communication needs during the arrival phase. The connection was ready for business after licensed operators were recruited from the District 9 attendees to serve as control operators at the two terminals. These included Dr. Eddie R. Fowler, Chief Advisor of Kansas Gamma — an amateur radio operator who was scheduled to be at the headquarters desk anyway!

Ready though we were for the worst the weather had to offer, in reality the weather on Wednesday and Thursday, when the throng of arrivals peaked, was ideal. All flights arriving at the Kansas City airport were either on time or slightly early. Every passenger was accommodated on the bus that had originally been scheduled for him or her, and the communication link actually carried only confirmation news that all was as planned. Only two passengers arrived after the last bus left; that was known beforehand, and alternate shuttle transportation was used. The fact that the communication link may not have been needed was overshadowed by the knowledge that Kansas Gamma was prepared if it had.

— Bennett L. Basore, OK Γ '48

Meetings & Districts & ICE, Oh My!

NO TORNADO ROARED across the plains to disrupt our 1998 Convention, at least not one of the real variety. Plenty of other excitement awaited as our student leaders from across the country gathered in Manhattan, KS. There were new friends to meet, journeys to discuss with someone who has traveled the path before, Tinker-Toy® towers to construct, and decisions to make about the future of Tau Beta Pi. While some became committee leaders, others caught the flow of Robert's Rules. Chapter development means training students and advisors, who returned home with new ideas and enthusiasm.

The Convention opened with basics for survival in the business meetings that would follow. Convention Chair Steve Pierre and Parliamentarian Jim Johnson guided delegates through the proper techniques of basic parliamentary procedure using *Robert's Rules of Order*. Once understood and properly used, these guides helped the meetings to proceed in an orderly fashion. Chapter presidents were well served to study and apply this knowledge on their campuses.

After the first business meeting, committees met to select chairs, vice chairs, and secretaries. These student leaders guided their teams and gained valuable experience presenting reports before the entire body. While voting delegates met in committees, their nonvoting counterparts built important interpersonal, team-building, and meeting-management skills at Engineering Futures sessions. Newly appointed Facilitators gained valuable training at these sessions as well. Delegates then regrouped for District meetings to renew old friendships and begin new ones as the bonds among chapters grew stronger. District Directors provided valuable guidance for their delegates, drawing from their own experiences as they provided a vital link between individual chapters and the national organization. Participation in the program helps many officers to improve their chapters.

Friday's business meeting provided the first opportunity to practice Robert's Rules. Motions, amendments, and points of information flew as delegates debated the issues with such efficiency that they completed the day's business ahead of schedule. Chapter development moved to the fore as delegates



District 1 members enjoyed their athletic ability and camaraderie.

met with their counterparts from the other schools in their Districts. Nineteen chapters whose project activity was outstanding received Project Awards as recognition for work well done. Their service to school, community, and the profession generated many ideas for officers to carry back and implement. Sixty-six chapters, which completed all their reports properly and submitted them promptly, received Secretary's Commendations.

The ever-popular Interactive Chapter Exchanges provided opportunities for all to brainstorm solutions to shared problems. District Director and Engineering Futures Facilitator Annette Brenner again led the 15 teams of Directors and Facilitators in steering chapters through the process. These afternoon sessions seemed to increase the energy level of participants. Assistant Secretary Roger Hawks set the tone for the exchanges with his entertaining slide-show and rapid-fire review of the membership process. Interactive exchanges have greatly helped many chapters to improve operations by providing the participants with novel and useful ideas.

On Saturday, the third business meeting generated the usually high level of debate as students honed their Robert's Rules skills. Final reports and concluding arguments helped them to arrive at their decisions. Everyone departed with

a new appreciation for the proper way to conduct a large meeting.

After lunch on campus, members viewed the initiation of the Kansas Gamma candidates. Director of Rituals Alan Hirsch, Secretary Jim Froula, and the Rituals Committee demonstrated how the ceremony should be conducted.

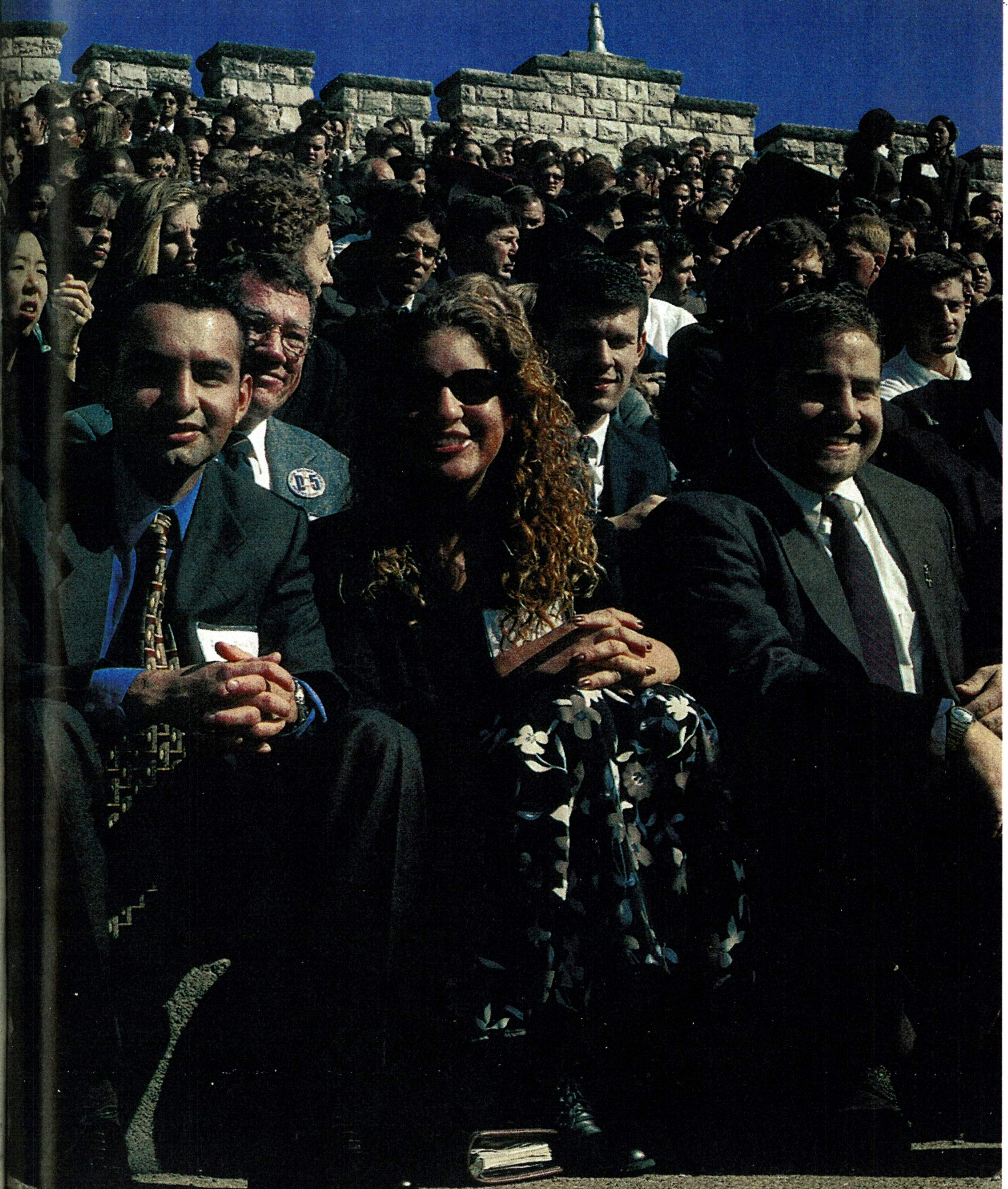
Advisors play an important role in chapter development, and they also served on the International Chapter Committee. Councillors Bill Beans and Bob Barr again conducted special sessions for these mentors, who were filled with renewed enthusiasm to continue their important function. The 1998 National Outstanding Advisor, John A. Tucker of Massachusetts Beta, was recognized at the Awards Banquet on Saturday night.

The final banquet provided another educational experience for delegates as the outgoing Great Lakes Council transferred leadership of the Association to the Mid-Atlantic Council. Chapters are encouraged to follow their example when the time comes to transfer their gavels.

As always, the Convention provided numerous opportunities packed into the busy hours. Each student, advisor, alumnus, and national official gained something valuable before returning home, tired but filled with the satisfaction of a job well done.

R.E.H.

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